

XP-002288127

AN - 1992-044352 [06]

AP - JP19900084840 19900402; [Previous Publ. JP3287574]; JP19900084840
19900402

CPY - MITK

DC - E14

DR - 0474-P 0672-S 1779-S

FS - CPI

IC - B01J23/02 ; B01J27/23 ; B01J27/232 ; C07B61/00 ; C07C407/00 ;
C07C409/10

MC - E10-A04B

M3 - [01] G010 G100 K0 K9 K920 M280 M313 M321 M331 M340 M342 M373 M391 M414
M510 M520 M531 M540 M720 M903 M904 M910 N224 N309 N342 N411 N421 N425
N513; R00474-P

PA - (MITK) MITSUI TOATSU CHEM INC

PN - JP3061394B2 B2 20000710 DW200037 C07C409/10 003pp
- JP3287574 A 19911218 DW199206 000pp

PR - JP19900084840 19900402

XA - C1992-019453

XIC - B01J-023/02 ; B01J-027/23 ; B01J-027/232 ; C07B-061/00 ; C07C-407/00 ;
C07C-409/10

AB - J03287574 Prepn. of cumene hydroperoxide (I) comprises oxidn. of
cumene (II) with molecular oxygen (III) (-contg. gas) in the presence
of alkali(ne earth) metal cpd(s) (IV) while controlling pH of reaction
medium at 3-6.

- Pref. (III) (pref. air) is blown into a mixt. of (II) and aq. soln. of
(IV) (pref. hydroxide(s) or carbonate(s) of alkali(ne earth) metal(s)
in amt. (0.1-6 gram-equiv. per ton of (II)) and concn. of aq. (IV)
soln. is detd. so that the amt. of water w.r.t. (II) is 0.1-10 wt.%
and the pH of the reaction is 3.5-5.5. Oxidn. is carried out at 80-130
deg.C (pref. 90-120 deg.C) under a pressure of 10 kg/sq.cm or lower.
- USE/ADVANTAGE - (I) is useful in the prodn. of phenol and acetone. (I)
is prepd. more selectively than in prior art without lowering reaction
rate and yield of (I). (3pp Dwg.No.0/0)

CN - R00474-P

IW - CUMENE HYDROPEROXIDE PREPARATION HIGH SELECT AIR OXIDATION CUMENE
PRESENCE ALKALI EARTH METAL COMPOUND SOLUTION

IKW - CUMENE HYDROPEROXIDE PREPARATION HIGH SELECT AIR OXIDATION CUMENE
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NC - 001

OPD - 1990-04-02

ORD - 1991-12-18

PAW - (MITK) MITSUI TOATSU CHEM INC

TI - Cumene hydroperoxide prepn. with higher selectivity - by air oxidn. of
cumene in presence of alkali(ne earth) metal cpd(s) soln.

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